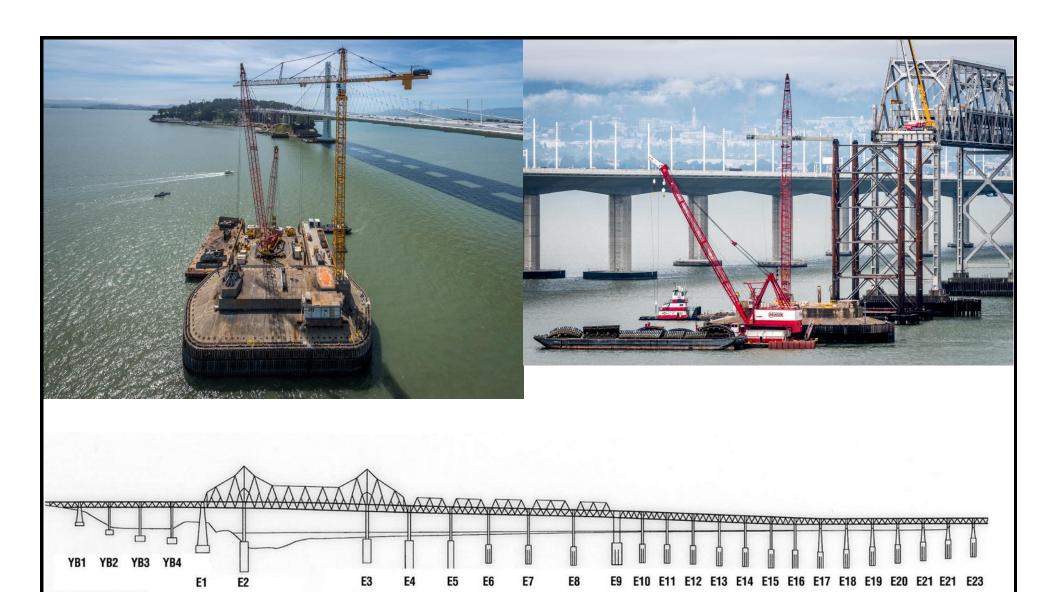


**Exhibit A.** Photograph of Pier E3 as seen from Yerba Buena Island after steel superstructure has been removed from the Pier.

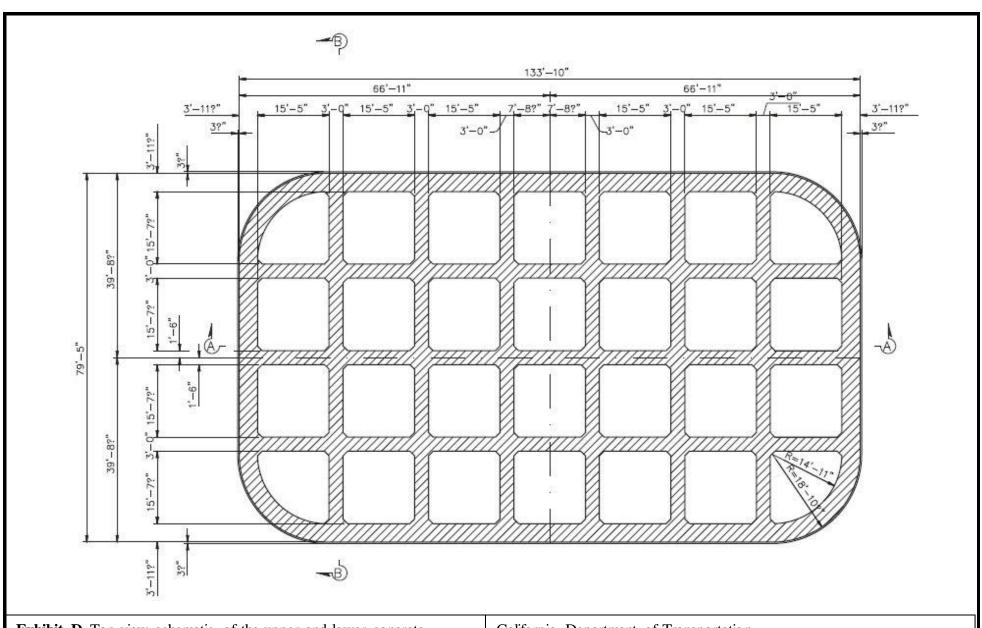
California Department of Transportation SFOBB Project: Pier E3 Demonstration Project



**Exhibit B.** Pier E3 after removal of steel superstructure. From the original bridge looking west (left) and from Yerba Buena Island looking east (Right). Side view schematic of the SFOBB original east span with piers labeled (bottom).

## PIER E3 PIER E3 SECTION LOOKING EAST SECTION LOOKING NORTH ELEV. ±00.00' ELEV. -48.42" ELEV -16173

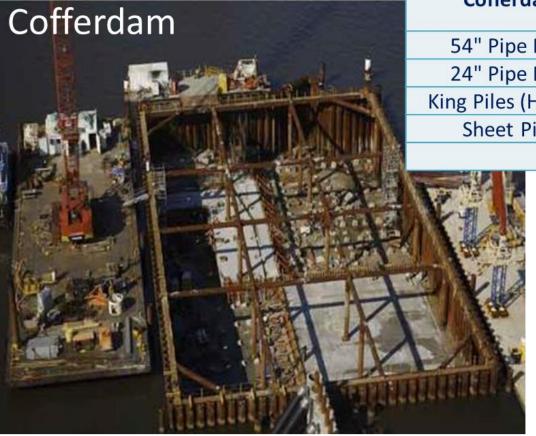
**Exhibit C.** Side view schematic of Pier E3 structure widthwise (left) and lengthwise (right).



**Exhibit D.** Top view schematic of the upper and lower concrete caisson cell structure of Pier E3.



**Exhibit** E. Photograph taken during construction of Pier E3 of the original SFOBB east span taken in 1934.

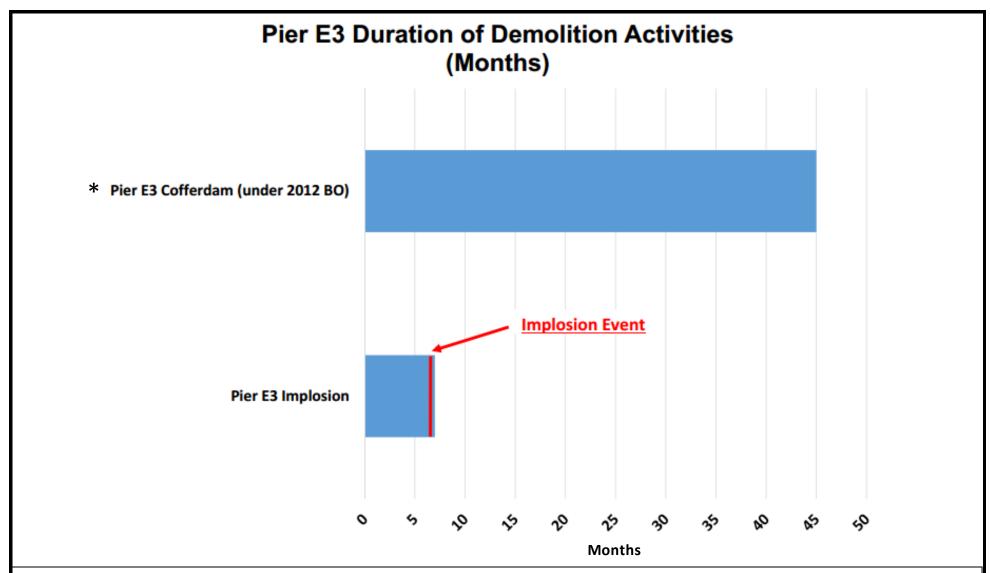






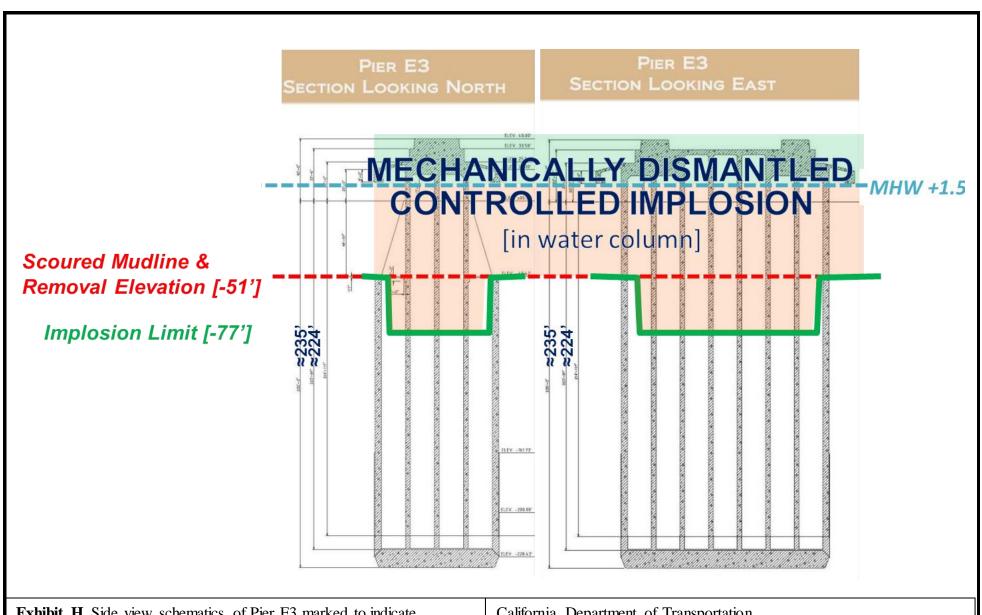


**Exhibit F.** Photographs showing examples of mechanical dismantling alternative methods and table showing the pile count for a conceptual cofferdam that was used to model the impact analysis for these alternatives.

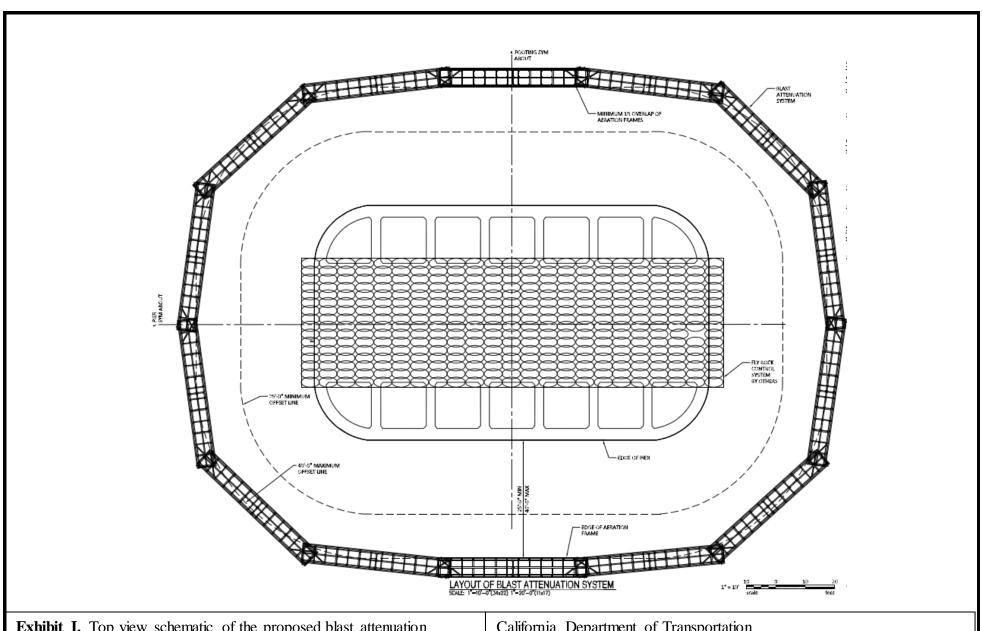


<sup>\*</sup> The duration estimate for the mechanical alternative includes construction of a conceptual cofferdam design under constraints of the SFOBB Project's 2012 NMFS Biological Opinion. Mechanical dismantling of Pier E3 and removal of the cofferdam are not included in this duration estimate.

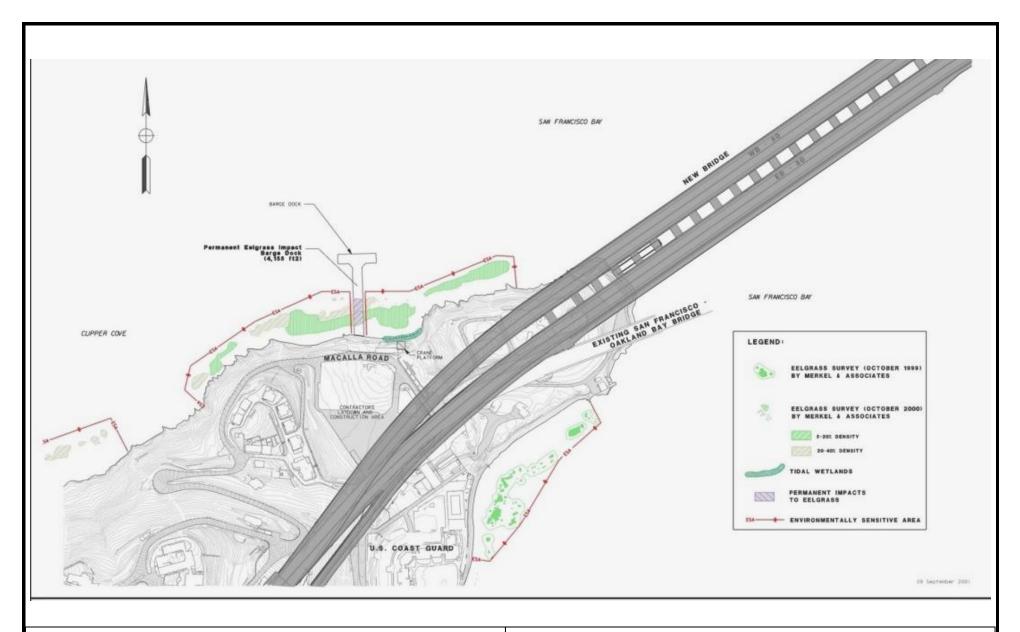
**Exhibit G.** Alternative analysis comparing schedule impacts between mechanical and controlled implosion alternatives to remove Pier E3.



**Exhibit H.** Side view schematics of Pier E3 marked to indicate elevation lines, water line, required removal limits and proposed limits of removal. Elevation metrics use the National Geodetic Vertical Datum of 1939.



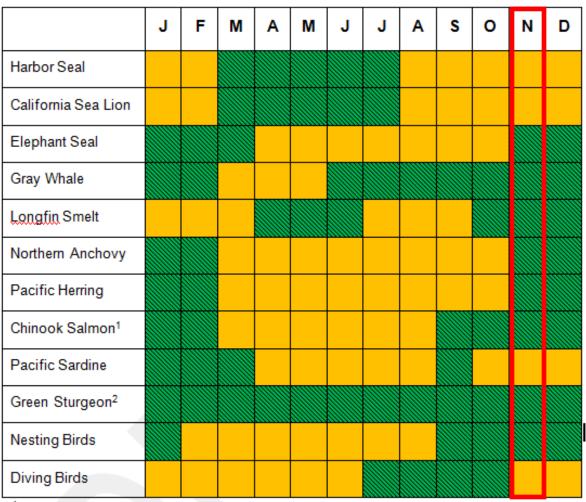
**Exhibit I.** Top view schematic of the proposed blast attenuation system for the Pier E3 Demonstration Project.



**Exhibit J.** Map showing eelgrass beds (Environmentally Sensitive Areas) at Yerba Buena Island.



**Exhibit K.** Examples of biological resources in the area, including, American peregrine falcon, harbor seals, chinook salmon & steelhead, double crested cormorant. Biological resources not pictured above include the California least tern, western gull, pacific herring, green sturgeon, longfin smelt, marine mammals, and eelgrass.



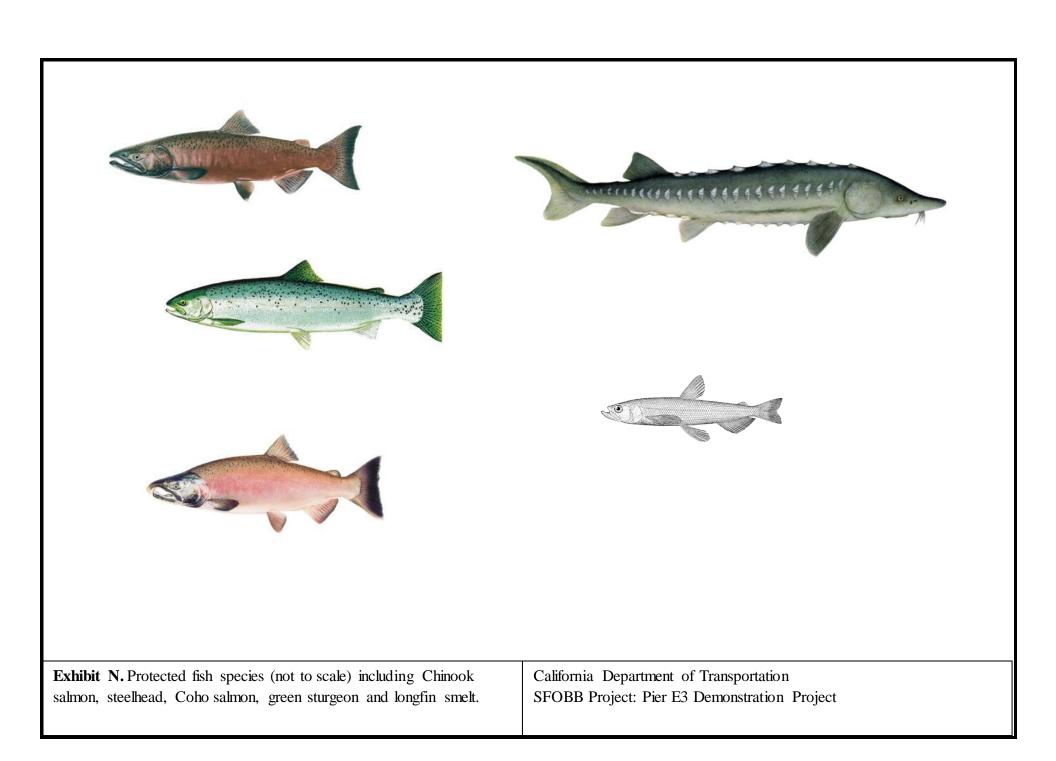
<sup>&</sup>lt;sup>1</sup>Juvenile Chinook salmon densities around Pier E3 are low (highest value of 0.25 individuals/10,000 sq. meters in May).

**Exhibit L.** Breakdown showing the optimal time of the year based on presence of species. Green squares indicate times when species are not present, not likely to be present, or are at their lowest densities recorded.

Green sturgeon have potential to occur around Pier E3 year-round, but in very low densities.

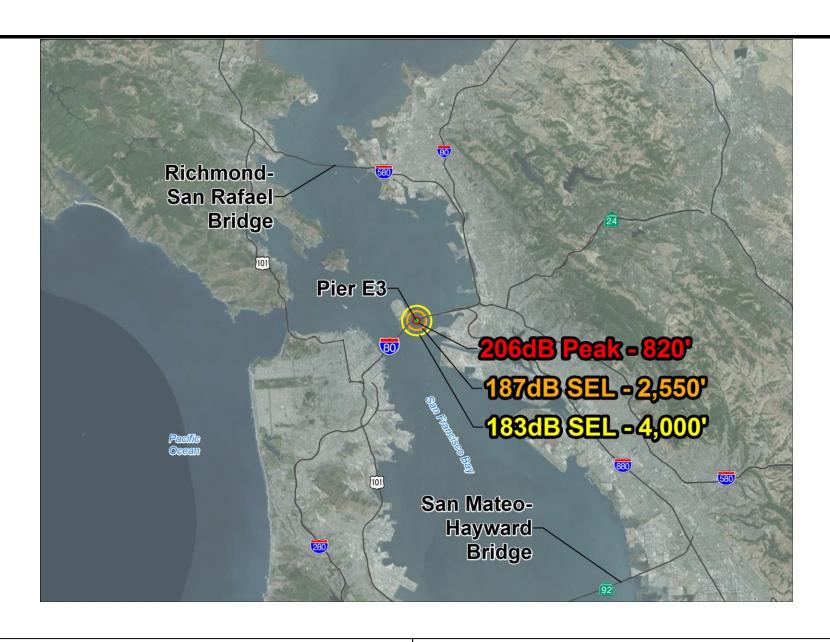


**Exhibit M.** Aerial view of the project area showing marine mammal impact thresholds and exclusion zones. Level B Harassment has potential to disturb a marine mammal, but does not include injury.





**Exhibit O.** Aerial view of the project area showing fisheries impact thresholds for peak pressure and sound exposure levels.



**Exhibit P.** Aerial view of the project area showing fisheries impact thresholds for peak pressure and sound exposure levels relative to greater San Francisco Bay Area.



**Exhibit Q.** Model of anticipated turbidity plume immediately following the implosion, including locations of monitoring stations relative to eelgrass beds in green. Turbidity caused by the Demonstration Project is expected to dissipate in less than two hours.

